

5/28/2015  
Ms. Cecilia Greene  
Auxier & Associates, Inc.  
9821 Cogdill Road, Suite 1

Knoxville TN 37932

Project Name: Westlake Landfill  
Project #:  
Workorder #: 1505236

Dear Ms. Cecilia Greene

The following report includes the data for the above referenced project for sample(s) received on 5/14/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner  
Project Manager

**A Eurofins Lancaster Laboratories Company**

**WORK ORDER #:** 1505236

## Work Order Summary

**CLIENT:** Ms. Cecilia Greene  
Auxier & Associates, Inc.  
9821 Cogdill Road, Suite 1  
Knoxville, TN 37932

**BILL TO:** Ms. Cecilia Greene  
Auxier & Associates, Inc.  
9821 Cogdill Road, Suite 1  
Knoxville, TN 37932

**PHONE:** 865-675-3669

**P.O. #**

**FAX:** 865-675-3677

**PROJECT #** Westlake Landfill

**DATE RECEIVED:** 05/14/2015

**CONTACT:** Kelly Buettner

**DATE COMPLETED:** 05/28/2015

<b><u>FRACTION #</u></b>	<b><u>NAME</u></b>	<b><u>TEST</u></b>
01A	ENGWESA001	Passive S.E. RAD130/SKC
02A	ENGWESA005	Passive S.E. RAD130/SKC
03A	ENGWESA007	Passive S.E. RAD130/SKC
04A	ENGWESA008	Passive S.E. RAD130/SKC
05A	ENGWESA011	Passive S.E. RAD130/SKC
06A	Duplicate	Passive S.E. RAD130/SKC
07A	Lab Blank	Passive S.E. RAD130/SKC
08A	LCS	Passive S.E. RAD130/SKC
08AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY:

DATE: 05/28/15

Technical Director

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE  
Passive SE GC/MS  
Auxier & Associates, Inc.  
Workorder# 1505236**

Six Radiello 130 (Solvent) samples were received on May 14, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m<sup>3</sup> concentrations in the Lab Blank, a sampling duration of 17515 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

#### **Definition of Data Qualifying Flags**

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

## Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

**Client Sample ID: ENGWESA001****Lab ID#: 1505236-01A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.15	0.40	0.30
Hexane	0.10	0.088	0.19	0.16
2-Butanone (Methyl Ethyl Ketone)	0.10	0.074	0.27	0.20
Carbon Tetrachloride	0.10	0.087	0.37	0.32
Heptane	0.10	0.10	0.18	0.18
Toluene	0.10	0.078	0.66	0.52
m,p-Xylene	0.10	0.083	0.26	0.21

**Client Sample ID: ENGWESA005****Lab ID#: 1505236-02A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.15	0.52	0.39
Hexane	0.10	0.088	0.25	0.22
2-Butanone (Methyl Ethyl Ketone)	0.10	0.073	0.36	0.27
Carbon Tetrachloride	0.10	0.086	0.37	0.32
Heptane	0.10	0.10	0.21	0.21
Toluene	0.10	0.078	0.72	0.56
Ethyl Benzene	0.10	0.085	0.11	0.094
m,p-Xylene	0.10	0.083	0.32	0.27

**Client Sample ID: ENGWESA007****Lab ID#: 1505236-03A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.15	0.55	0.41
2-Propanol	0.20	0.22	0.21	0.24
Hexane	0.10	0.088	0.40	0.35
Ethyl Acetate	0.40	0.30	0.56	0.41
2-Butanone (Methyl Ethyl Ketone)	0.10	0.073	0.37	0.27
Carbon Tetrachloride	0.10	0.086	0.40	0.35
Benzene	0.40	0.29	0.43	0.31
Heptane	0.10	0.10	0.25	0.25



Air Toxics

## Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

**Client Sample ID: ENGWESA007****Lab ID#: 1505236-03A**

Toluene	0.10	0.078	1.3	0.99
Ethyl Benzene	0.10	0.085	0.16	0.14
m,p-Xylene	0.10	0.083	0.52	0.42
o-Xylene	0.10	0.089	0.14	0.13

**Client Sample ID: ENGWESA008****Lab ID#: 1505236-04A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.15	0.54	0.41
Hexane	0.10	0.088	0.34	0.30
2-Butanone (Methyl Ethyl Ketone)	0.10	0.074	0.33	0.24
Carbon Tetrachloride	0.10	0.087	0.43	0.38
Benzene	0.40	0.29	0.46	0.33
Heptane	0.10	0.10	0.22	0.23
Toluene	0.10	0.079	0.82	0.64
Ethyl Benzene	0.10	0.086	0.10	0.088
m,p-Xylene	0.10	0.083	0.32	0.26

**Client Sample ID: ENGWESA011****Lab ID#: 1505236-05A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.15	0.48	0.36
Hexane	0.10	0.086	0.24	0.21
2-Butanone (Methyl Ethyl Ketone)	0.10	0.072	0.37	0.27
Carbon Tetrachloride	0.10	0.085	0.40	0.34
Benzene	0.40	0.28	0.42	0.30
Heptane	0.10	0.098	0.21	0.20
Toluene	0.10	0.077	0.61	0.47
Ethyl Benzene	0.10	0.084	0.10	0.085
m,p-Xylene	0.10	0.082	0.28	0.23

## **Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS**

**Client Sample ID: Duplicate**

**Lab ID#: 1505236-06A**

<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Acetone	0.20	0.15	0.51	0.38
Hexane	0.10	0.086	0.31	0.26
2-Butanone (Methyl Ethyl Ketone)	0.10	0.072	0.39	0.28
Carbon Tetrachloride	0.10	0.085	0.41	0.35
Benzene	0.40	0.28	0.44	0.31
Heptane	0.10	0.098	0.21	0.20
Toluene	0.10	0.077	0.61	0.47
Ethyl Benzene	0.10	0.084	0.10	0.086
m,p-Xylene	0.10	0.082	0.28	0.23



Air Toxics

Client Sample ID: ENGWESA001

Lab ID#: 1505236-01A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051922sim</b>	<b>Date of Collection:</b> 5/13/15 11:05:00 AM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/19/15 04:58 PM		
		<b>Date of Extraction:</b> 5/19/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.57	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.40	0.30
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.089	Not Detected	Not Detected
Hexane	0.10	0.088	0.19	0.16
Ethyl Acetate	0.40	0.30	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.074	0.27	0.20
Chloroform	0.10	0.078	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.094	Not Detected	Not Detected
Cyclohexane	0.10	0.11	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.087	0.37	0.32
Benzene	0.40	0.29	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.076	Not Detected	Not Detected
Heptane	0.10	0.10	0.18	0.18
Trichloroethene	0.10	0.084	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.078	0.66	0.52
Tetrachloroethylene	0.10	0.098	Not Detected	Not Detected
Chlorobenzene	0.10	0.086	Not Detected	Not Detected
Ethyl Benzene	0.10	0.086	Not Detected	Not Detected
m,p-Xylene	0.10	0.083	0.26	0.21
o-Xylene	0.10	0.089	Not Detected	Not Detected
Styrene	0.10	0.095	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17195 minutes.

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130



Air Toxics

Client Sample ID: ENGWESA005

Lab ID#: 1505236-02A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051923sim</b>	<b>Date of Collection:</b>	<b>5/13/15 11:35:00 AM</b>	
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b>	<b>5/19/15 05:22 PM</b>	
		<b>Date of Extraction:</b>	<b>5/19/15</b>	
<hr/>				
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.57	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.52	0.39
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.089	Not Detected	Not Detected
Hexane	0.10	0.088	0.25	0.22
Ethyl Acetate	0.40	0.30	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.073	0.36	0.27
Chloroform	0.10	0.077	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.093	Not Detected	Not Detected
Cyclohexane	0.10	0.11	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.086	0.37	0.32
Benzene	0.40	0.29	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.075	Not Detected	Not Detected
Heptane	0.10	0.10	0.21	0.21
Trichloroethene	0.10	0.084	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.078	0.72	0.56
Tetrachloroethylene	0.10	0.098	Not Detected	Not Detected
Chlorobenzene	0.10	0.085	Not Detected	Not Detected
Ethyl Benzene	0.10	0.085	0.11	0.094
m,p-Xylene	0.10	0.083	0.32	0.27
o-Xylene	0.10	0.089	Not Detected	Not Detected
Styrene	0.10	0.095	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17285 minutes.

**Container Type: Radiello 130 (Solvent)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	107	70-130



Air Toxics

Client Sample ID: ENGWESA007

Lab ID#: 1505236-03A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051924sim</b>	<b>Date of Collection:</b>	<b>5/13/15 11:25:00 AM</b>	
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b>	<b>5/19/15 05:45 PM</b>	
		<b>Date of Extraction:</b>	<b>5/19/15</b>	
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.57	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.55	0.41
2-Propanol	0.20	0.22	0.21	0.24
Methyl tert-butyl ether	0.10	0.089	Not Detected	Not Detected
Hexane	0.10	0.088	0.40	0.35
Ethyl Acetate	0.40	0.30	0.56	0.41
2-Butanone (Methyl Ethyl Ketone)	0.10	0.073	0.37	0.27
Chloroform	0.10	0.077	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.093	Not Detected	Not Detected
Cyclohexane	0.10	0.11	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.086	0.40	0.35
Benzene	0.40	0.29	0.43	0.31
1,2-Dichloroethane	0.10	0.075	Not Detected	Not Detected
Heptane	0.10	0.10	0.25	0.25
Trichloroethene	0.10	0.084	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.078	1.3	0.99
Tetrachloroethylene	0.10	0.098	Not Detected	Not Detected
Chlorobenzene	0.10	0.085	Not Detected	Not Detected
Ethyl Benzene	0.10	0.085	0.16	0.14
m,p-Xylene	0.10	0.083	0.52	0.42
o-Xylene	0.10	0.089	0.14	0.13
Styrene	0.10	0.095	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17290 minutes.

**Container Type: Radiello 130 (Solvent)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	105	70-130



Air Toxics

Client Sample ID: ENGWESA008

Lab ID#: 1505236-04A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051925sim</b>	<b>Date of Collection:</b>	<b>5/13/15 12:05:00 PM</b>	
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b>	<b>5/19/15 06:08 PM</b>	
		<b>Date of Extraction:</b>	<b>5/19/15</b>	
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.57	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.54	0.41
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.090	Not Detected	Not Detected
Hexane	0.10	0.088	0.34	0.30
Ethyl Acetate	0.40	0.30	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.074	0.33	0.24
Chloroform	0.10	0.078	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.094	Not Detected	Not Detected
Cyclohexane	0.10	0.11	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.087	0.43	0.38
Benzene	0.40	0.29	0.46	0.33
1,2-Dichloroethane	0.10	0.076	Not Detected	Not Detected
Heptane	0.10	0.10	0.22	0.23
Trichloroethene	0.10	0.084	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.079	0.82	0.64
Tetrachloroethylene	0.10	0.099	Not Detected	Not Detected
Chlorobenzene	0.10	0.086	Not Detected	Not Detected
Ethyl Benzene	0.10	0.086	0.10	0.088
m,p-Xylene	0.10	0.083	0.32	0.26
o-Xylene	0.10	0.090	Not Detected	Not Detected
Styrene	0.10	0.096	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17135 minutes.

**Container Type: Radiello 130 (Solvent)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	107	70-130



Air Toxics

Client Sample ID: ENGWESA011

Lab ID#: 1505236-05A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051926sim</b>	<b>Date of Collection:</b> 5/13/15 11:45:00 AM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/19/15 06:32 PM		
		<b>Date of Extraction:</b> 5/19/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.56	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.48	0.36
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.088	Not Detected	Not Detected
Hexane	0.10	0.086	0.24	0.21
Ethyl Acetate	0.40	0.29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.072	0.37	0.27
Chloroform	0.10	0.076	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.092	Not Detected	Not Detected
Cyclohexane	0.10	0.10	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.085	0.40	0.34
Benzene	0.40	0.28	0.42	0.30
1,2-Dichloroethane	0.10	0.074	Not Detected	Not Detected
Heptane	0.10	0.098	0.21	0.20
Trichloroethene	0.10	0.083	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.077	0.61	0.47
Tetrachloroethylene	0.10	0.097	Not Detected	Not Detected
Chlorobenzene	0.10	0.084	Not Detected	Not Detected
Ethyl Benzene	0.10	0.084	0.10	0.085
m,p-Xylene	0.10	0.082	0.28	0.23
o-Xylene	0.10	0.088	Not Detected	Not Detected
Styrene	0.10	0.094	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17515 minutes.

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 1505236-06A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051927sim</b>	<b>Date of Collection:</b> 5/13/15 11:45:00 AM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/19/15 06:55 PM		
		<b>Date of Extraction:</b> 5/19/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.56	Not Detected J0	Not Detected J0
Acetone	0.20	0.15	0.51	0.38
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.088	Not Detected	Not Detected
Hexane	0.10	0.086	0.31	0.26
Ethyl Acetate	0.40	0.29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.072	0.39	0.28
Chloroform	0.10	0.076	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.092	Not Detected	Not Detected
Cyclohexane	0.10	0.10	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.085	0.41	0.35
Benzene	0.40	0.28	0.44	0.31
1,2-Dichloroethane	0.10	0.074	Not Detected	Not Detected
Heptane	0.10	0.098	0.21	0.20
Trichloroethene	0.10	0.083	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.077	0.61	0.47
Tetrachloroethylene	0.10	0.097	Not Detected	Not Detected
Chlorobenzene	0.10	0.084	Not Detected	Not Detected
Ethyl Benzene	0.10	0.084	0.10	0.086
m,p-Xylene	0.10	0.082	0.28	0.23
o-Xylene	0.10	0.088	Not Detected	Not Detected
Styrene	0.10	0.094	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

J0 = Estimated value due to bias in the CCV.

Temperature = 77.0F , duration time = 17515 minutes.

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1505236-07A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051914sim</b>	<b>Date of Collection: NA</b>		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 5/19/15 01:38 PM</b>		
		<b>Date of Extraction: 5/19/15</b>		
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.56	Not Detected	Not Detected
Acetone	0.20	0.15	Not Detected	Not Detected
2-Propanol	0.20	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.088	Not Detected	Not Detected
Hexane	0.10	0.086	Not Detected	Not Detected
Ethyl Acetate	0.40	0.29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.072	Not Detected	Not Detected
Chloroform	0.10	0.076	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.092	Not Detected	Not Detected
Cyclohexane	0.10	0.10	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.085	Not Detected	Not Detected
Benzene	0.40	0.28	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.074	Not Detected	Not Detected
Heptane	0.10	0.098	Not Detected	Not Detected
Trichloroethene	0.10	0.083	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.077	Not Detected	Not Detected
Tetrachloroethylene	0.10	0.097	Not Detected	Not Detected
Chlorobenzene	0.10	0.084	Not Detected	Not Detected
Ethyl Benzene	0.10	0.084	Not Detected	Not Detected
m,p-Xylene	0.10	0.082	Not Detected	Not Detected
o-Xylene	0.10	0.088	Not Detected	Not Detected
Styrene	0.10	0.094	Not Detected	Not Detected
Propylbenzene	0.10	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.23	Not Detected	Not Detected

Temperature = 77.0F , duration time = 17515 minutes.

Container Type: Radiello 130 (Solvent)

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1505236-08A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051912sim</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/19/15 12:51 PM
		<b>Date of Extraction:</b> 5/19/15

Compound	%Recovery	Method Limits
Ethanol	35 Q	50-130
Acetone	85	70-130
2-Propanol	52	50-130
Methyl tert-butyl ether	114	70-130
Hexane	78	70-130
Ethyl Acetate	100	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	116	70-130
Cyclohexane	114	70-130
Carbon Tetrachloride	107	70-130
Benzene	100	70-130
1,2-Dichloroethane	99	70-130
Heptane	103	70-130
Trichloroethene	88	70-130
4-Methyl-2-pentanone	113	70-130
Toluene	99	70-130
Tetrachloroethylene	91	70-130
Chlorobenzene	85	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	98	70-130
o-Xylene	86	70-130
Styrene	60	20-100
Propylbenzene	97	70-130
1,4-Dichlorobenzene	74	50-110
Naphthalene	8.7	5-80

Q = Exceeds Quality Control limits.

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505236-08AA

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10051913sim</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/19/15 01:15 PM
		<b>Date of Extraction:</b> 5/19/15

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Ethanol	37 Q	50-130
Acetone	89	70-130
2-Propanol	54	50-130
Methyl tert-butyl ether	113	70-130
Hexane	80	70-130
Ethyl Acetate	102	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	118	70-130
Cyclohexane	115	70-130
Carbon Tetrachloride	111	70-130
Benzene	103	70-130
1,2-Dichloroethane	103	70-130
Heptane	105	70-130
Trichloroethene	91	70-130
4-Methyl-2-pentanone	113	70-130
Toluene	98	70-130
Tetrachloroethylene	94	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	99	70-130
o-Xylene	86	70-130
Styrene	63	20-100
Propylbenzene	103	70-130
1,4-Dichlorobenzene	73	50-110
Naphthalene	8.7	5-80

Q = Exceeds Quality Control limits.

**Container Type: Radiello 130 (Solvent)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	107	70-130